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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,074	06/20/2003	Kwan Wu Chin	CML01033AC	6857
22917	7590	03/07/2008	EXAMINER	
MOTOROLA, INC.			BARQADLE, YASIN M	
1303 EAST ALGONQUIN ROAD				
IL01/3RD			ART UNIT	PAPER NUMBER
SCHAUMBURG, IL 60196			2153	
			NOTIFICATION DATE	DELIVERY MODE
			03/07/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Docketing.Schaumburg@motorola.com
APT099@motorola.com

Office Action Summary

Application No.

10/600,074

Applicant(s)

CHIN, KWAN WU

Examiner

YASIN M. BARQADLE

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 June 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>06/20/2003</u> . | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

- Claims 1-20 are presented for examination.

Specification

The abstract of the disclosure is objected to because it must be a separate page not including comments such "FIG. 4 accompanies this abstract". Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the

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reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 3-5, 8-13 and 15-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Hies et al USPN. (7,333,510).

As per claims 1,9 and 17 Hies teaches a multicast system supporting first and second protocols, said multicast system (abstract) comprising: a transmission link supporting first and second protocols (fig. 2) ; a plurality of host computing devices coupled to said transmission link, each of said host computing devices operating in accordance with at least one of said first and second protocols (fig. 2, 210,212, 230,232 and col. 3,lines 61-65); and a dual-stack host coupled to said transmission link and operable in accordance with each of said first and second protocols, said dual-stack host monitoring said transmission link for multicast requests, detecting a first multicast request from a source host computing device to a destination host computing device using said first protocol, sending a second multicast request to said destination computing device using each of said first and second protocols (fig. 2, 206 and col. 4,lines 4-27), and invoking protocol translation(see fig. 7 and 8 step 804), when a reply from said destination

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host computing device is received using said second protocol and no reply is received from said destination host computing device using said first protocol (col. 3, lines 5-29 and col. 4, lines 9-29; and a proxy mechanism coupled to said transmission link, said proxy mechanism generating a proxy address for said destination host computing device using said first protocol to facilitate communication between said source host computing device and said destination host computing device (fig. 2, 206 and col. 4, lines 4-27 and col. 4, lines 9-29);

Hies further teaches a network interface for communicating with said network; a memory for storing information; a processor coupled to said memory and said network interface (see fig. 2 and fig. 6).

As per claims 3, 10 and 18, Hies the invention wherein said first and second protocols are each selected from the group of protocols consisting of Internet Protocol version 4 (IPv4) and Internet Protocol version 6 (IPv6) (see fig. 2).

As per claims 4 and 11, Hies the invention wherein said protocol translation comprises the steps of: generating a proxy address using said first protocol for said destination host; and forwarding said proxy address to said source host (col. 4, lines

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9-29).

As per claims 5 and 12, Hies the invention wherein said protocol translation comprises the further steps of: creating an alias on a network interface at a translation mechanism in the multicast network; and assigning said proxy address to said aliased network interface to enable said translation mechanism to detect and process packets addressed to said proxy address (col. 4, lines 9-61).

As per claims 8, 16 and 20, Hies the invention wherein said multicast network is a multicast domain name system network (col. 4, lines 9-29).

As per claim 13, Hies teaches the method according to claim 6, wherein said translation mechanism is selected from the group of translation mechanisms consisting of a translator and a proxy (col. 4, lines 9-61).

As per claims 15, Hies teaches, wherein said dual-stack host, said proxy mechanism and said translation mechanism are co-located in a node of said multicast network (fig. 2).

As per claims 19, Hies teaches multicast system according to

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claim 17, wherein said dual-stack host and said proxy mechanism are co-located (see fig. 2, 206).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 6-7 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hies et al USPN. 7,333,510 in view of Ananda et al USPN (7231452).

As per claims 2, 6 although Hies shows substantial features of the claimed invention, he does not explicitly show using unicast reply or request between the destination host and the source host. Nonetheless, this feature is well known in the art and would have been an obvious modification of the system disclosed by Hies, as evidenced by Ananda USPN. (7231452).

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In analogous art, Ananda disclose using unicast reply or request between the destination host and the source host in a dual-stack environment (col. 9, lines 43-58)

Giving the teaching of Ananda, a person of ordinary skill in the art would have readily recognized the desirability and the advantage of modifying Hies by employing the system of Ananda so that message are forward to the unicast address of the a particular host, in this way creating an efficient network traffic usage.

Ananda further teaches detecting said unicast request at said aliased network interface by said translation mechanism; processing of said unicast request by said translation mechanism to determine an address for said destination host using said second protocol; and forwarding said unicast request by said translation mechanism to said destination host using said second protocol to establish a connection from said source host to said destination host (col. 9, lines 43-66).

As per claim 7, Hies teaches the method according to claim 6, wherein said translation mechanism is selected from the group of translation mechanisms consisting of a translator and a proxy (col. 4, lines 9-61).

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As per claim 14, Ananda teaches wherein said dual-stack host comprises: a multicast domain name system application level gateway (mDNS-ALG) (col. 8, lines 47-65).

Conclusion

The prior made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yasin Bargadle whose telephone number is 571-272-3947. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Burgess can be reached on 571-272-3949. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval

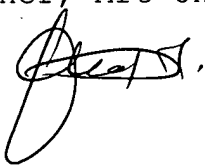
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(PAIR) system. Status information for published applications may be obtained from either private PAIR or public PAIR system.

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/Yasin M Barqadle/

Examiner, Art Unit 2153

A handwritten signature in black ink, appearing to read 'Yasin M Barqadle', with a large loop at the end.